



**FAULT FINDING** **TALKBACK DAMPER CONTROLLER SYSTEM**

# FAULT FINDING

## PLEASE NOTE

*It is important to be aware of the following information concerning the shutter control system when fault finding:*

The top row of green lights of the control unit indicate:

**a)** Initially that the control unit has instructed the damper or shutter to open.

**b)** 20 seconds later if the green light is still illuminated the damper or shutter has successfully executed the instruction.

The centre row of red lights marked NULL on the control unit when illuminated indicate either:

**a)** Failure of a shutter to follow the last command from the control unit if connected. The red light may take 30 seconds to illuminate after the command was transmitted whilst the system interrogates and responds for each channel.

**b)** No shutter is connected to this channel.

The bottom row of green lights of the control unit indicate:

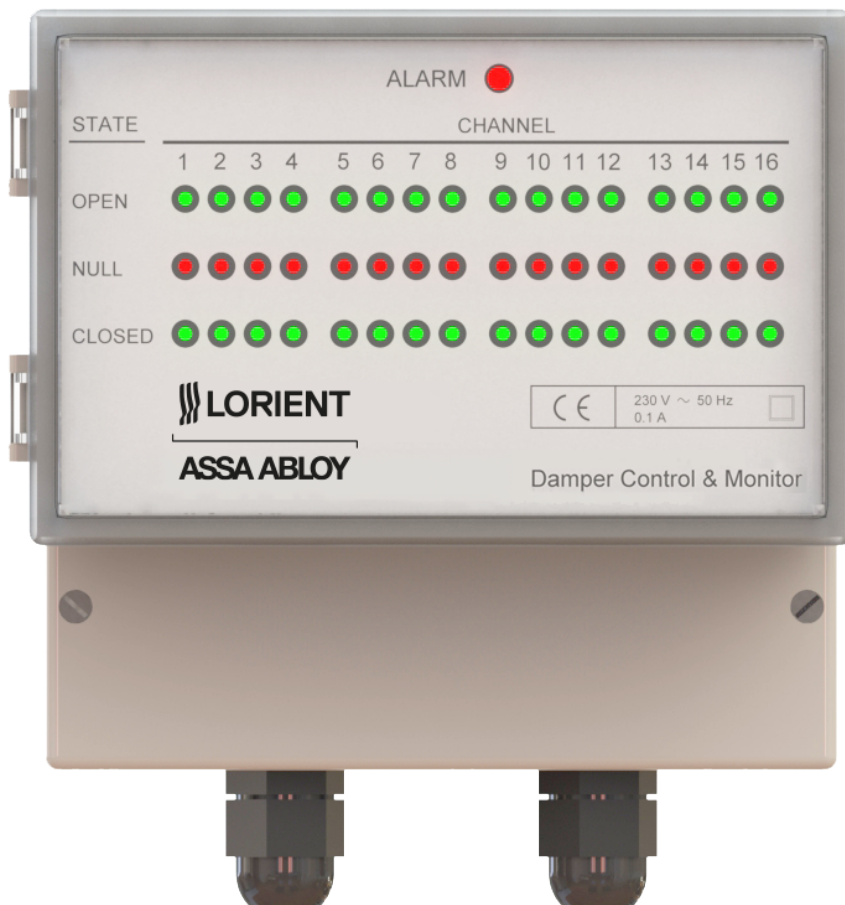
**a)** Initially that the control unit has instructed the damper or shutter to close.

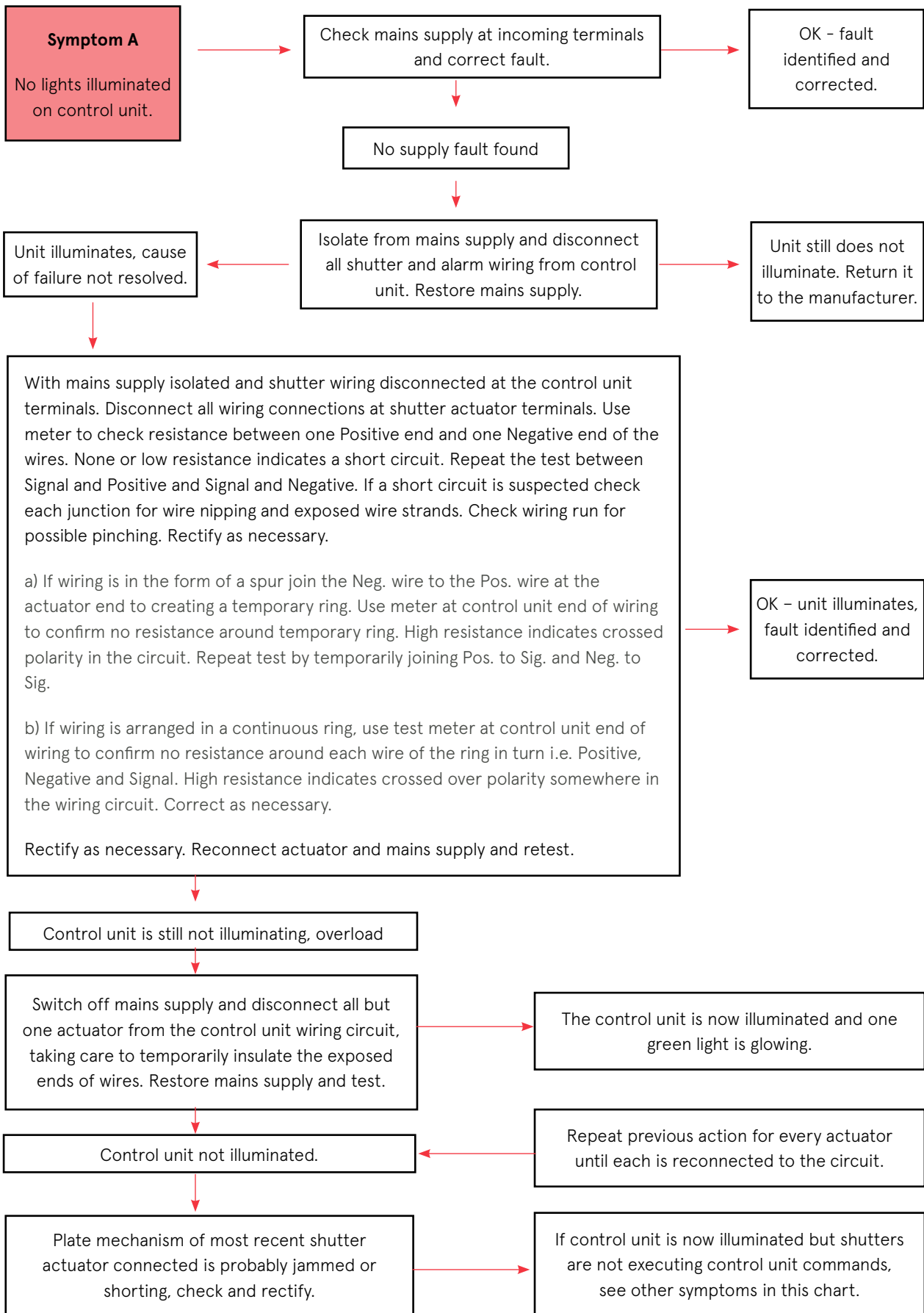
**b)** 20 seconds later if the green light is still illuminated the damper or shutter has successfully executed the instruction.

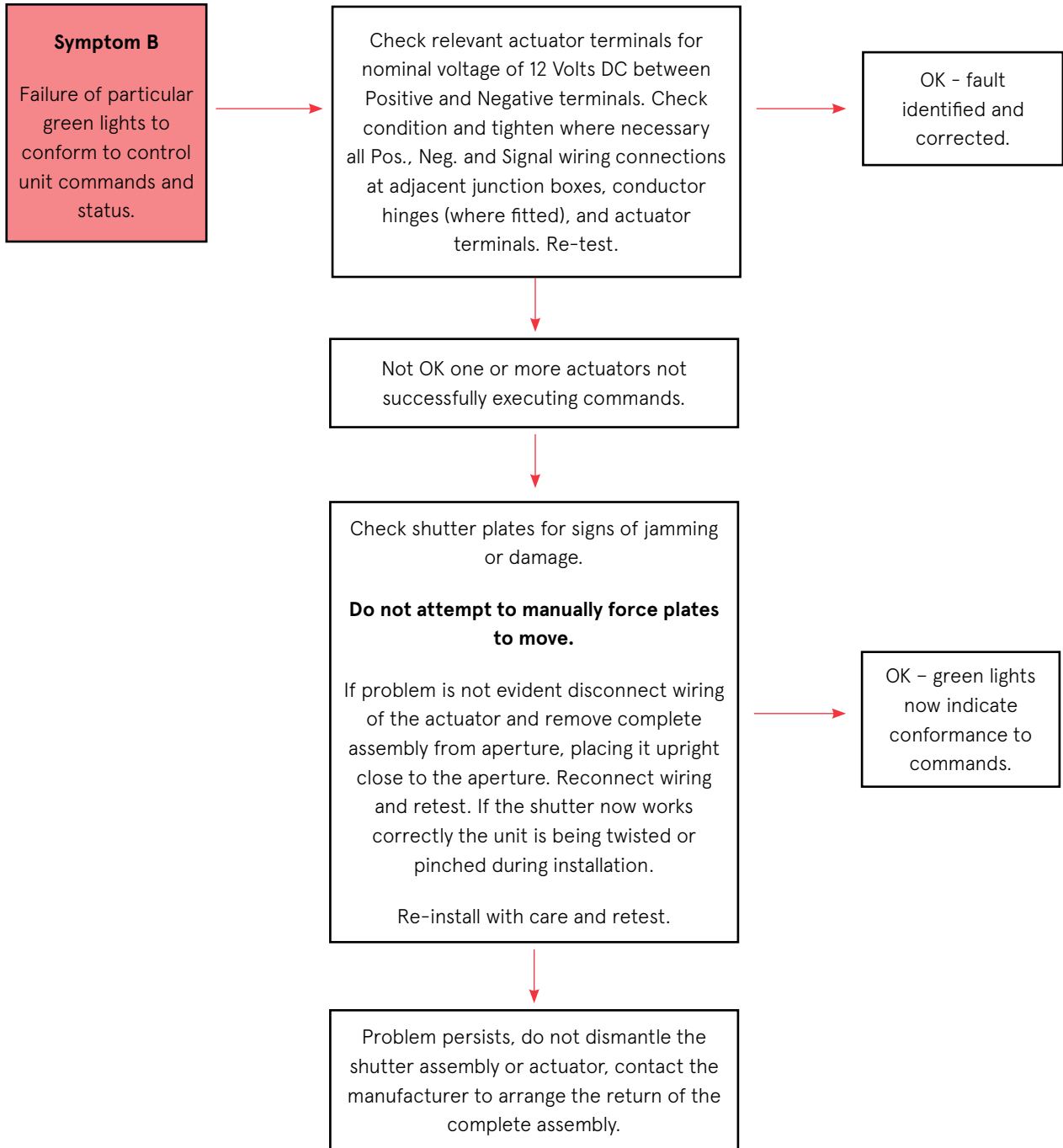
Ensure that sufficient time is allowed for the system to stabilise when initially powered up. Also allow sufficient time for control unit commands to be received by the actuators and confirmation from the shutter or damper actuators sent back to the control unit.

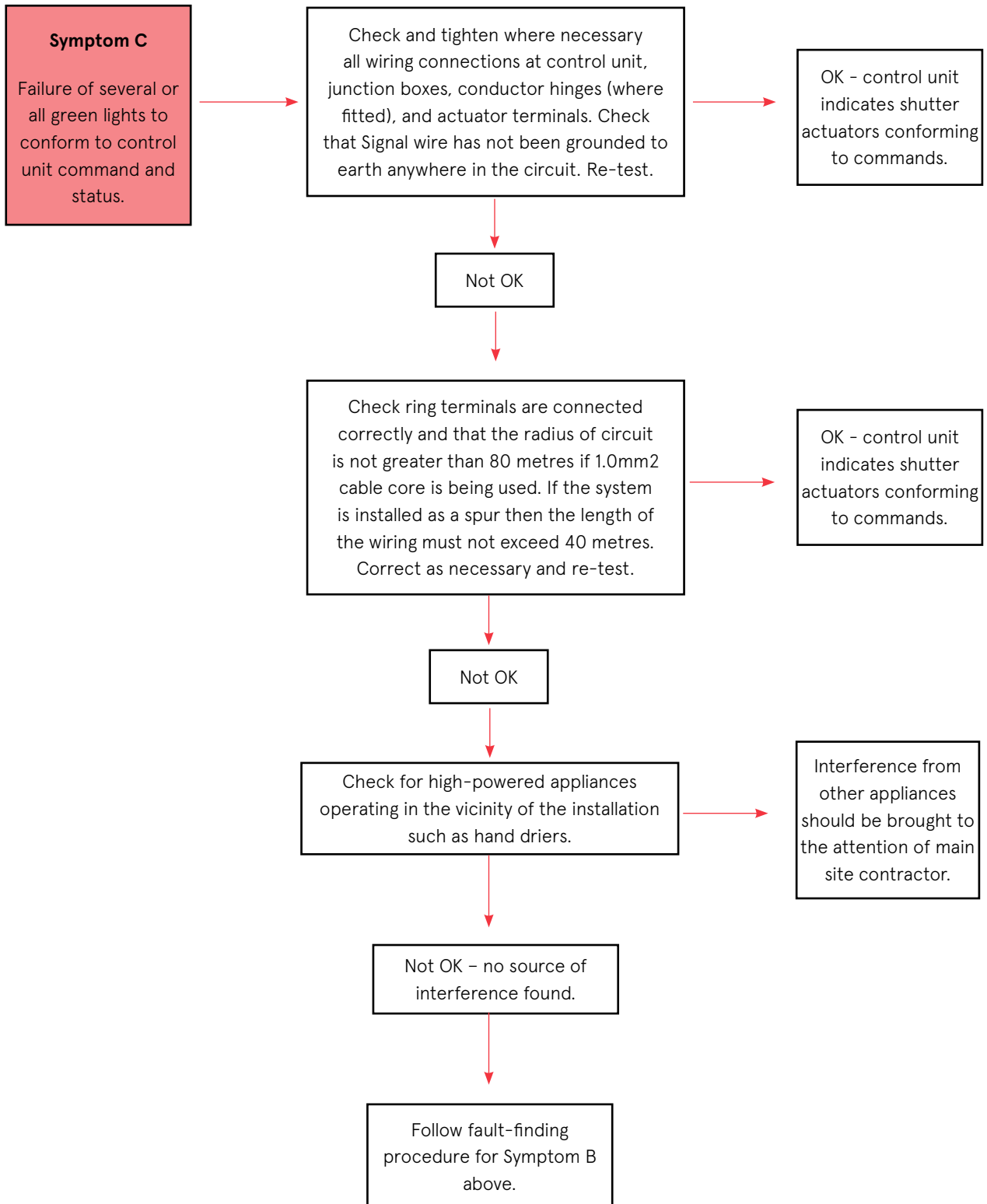
Before conducting a lost power "Fail Safe" test, at least 4 minutes must be allowed from powering up the system in order to ensure that all capacitors have been adequately charged.

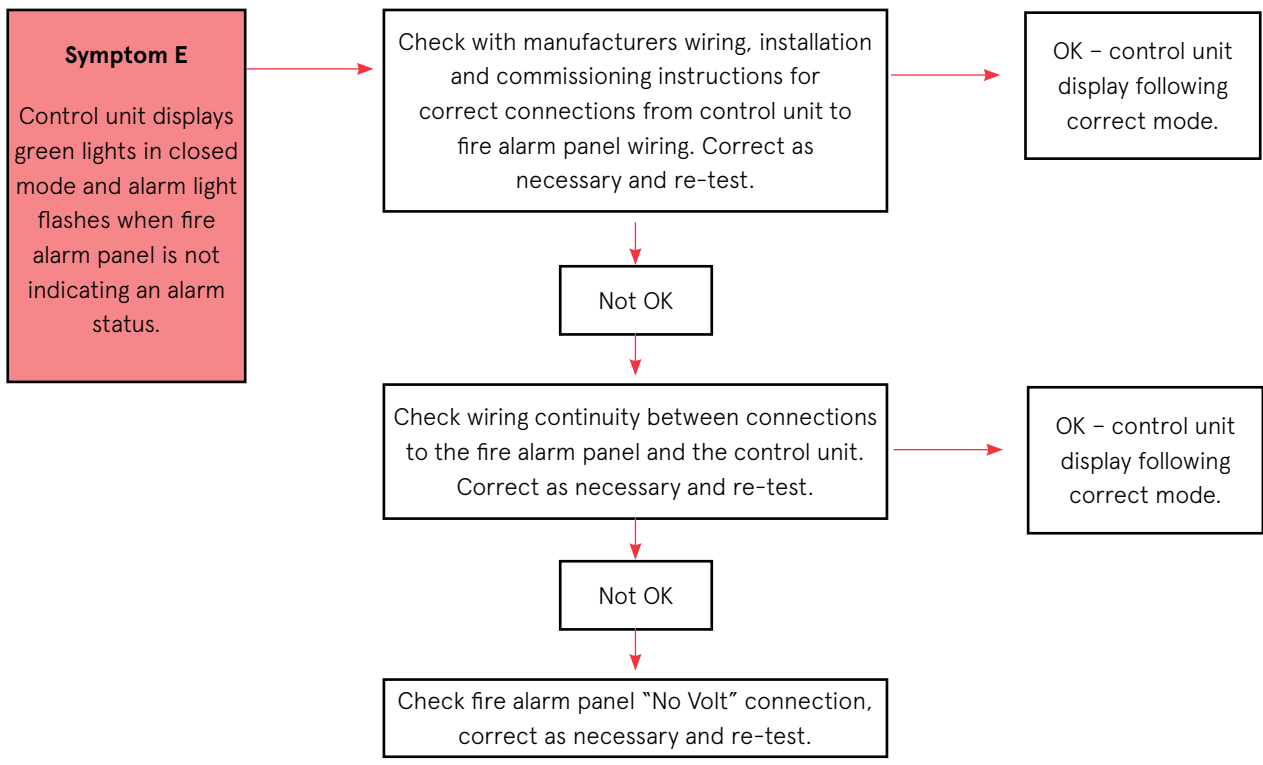
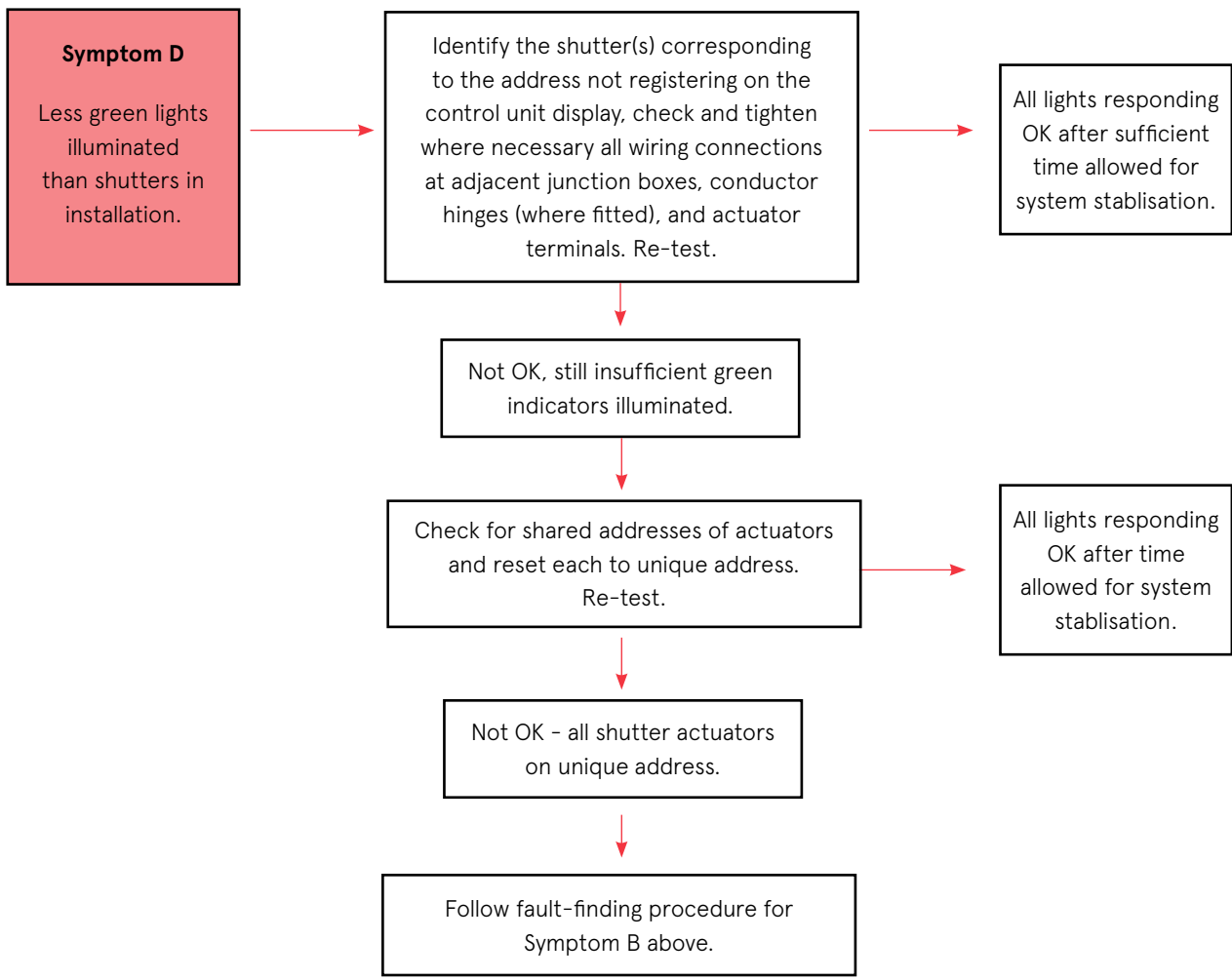
Fault symptoms on this chart have been arranged in the most likely order that they may be encountered during commissioning.

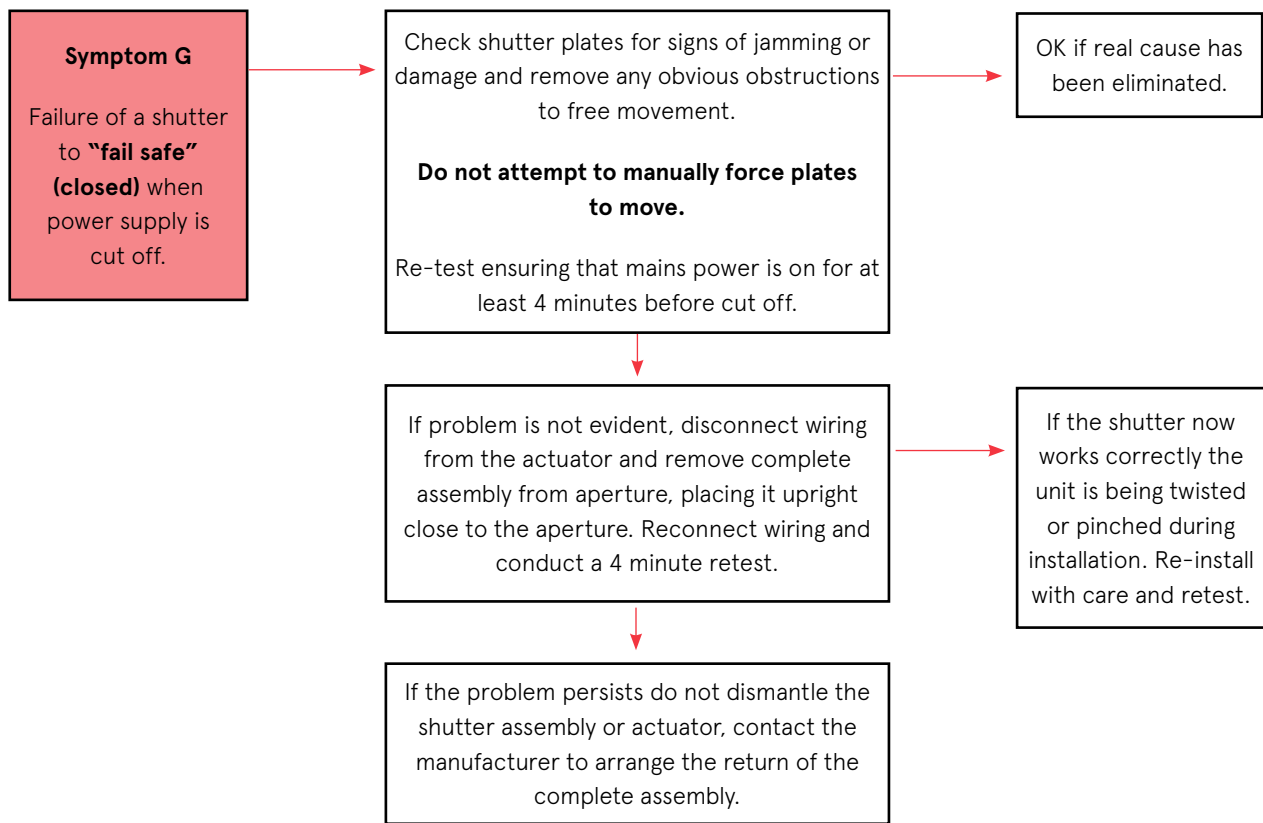
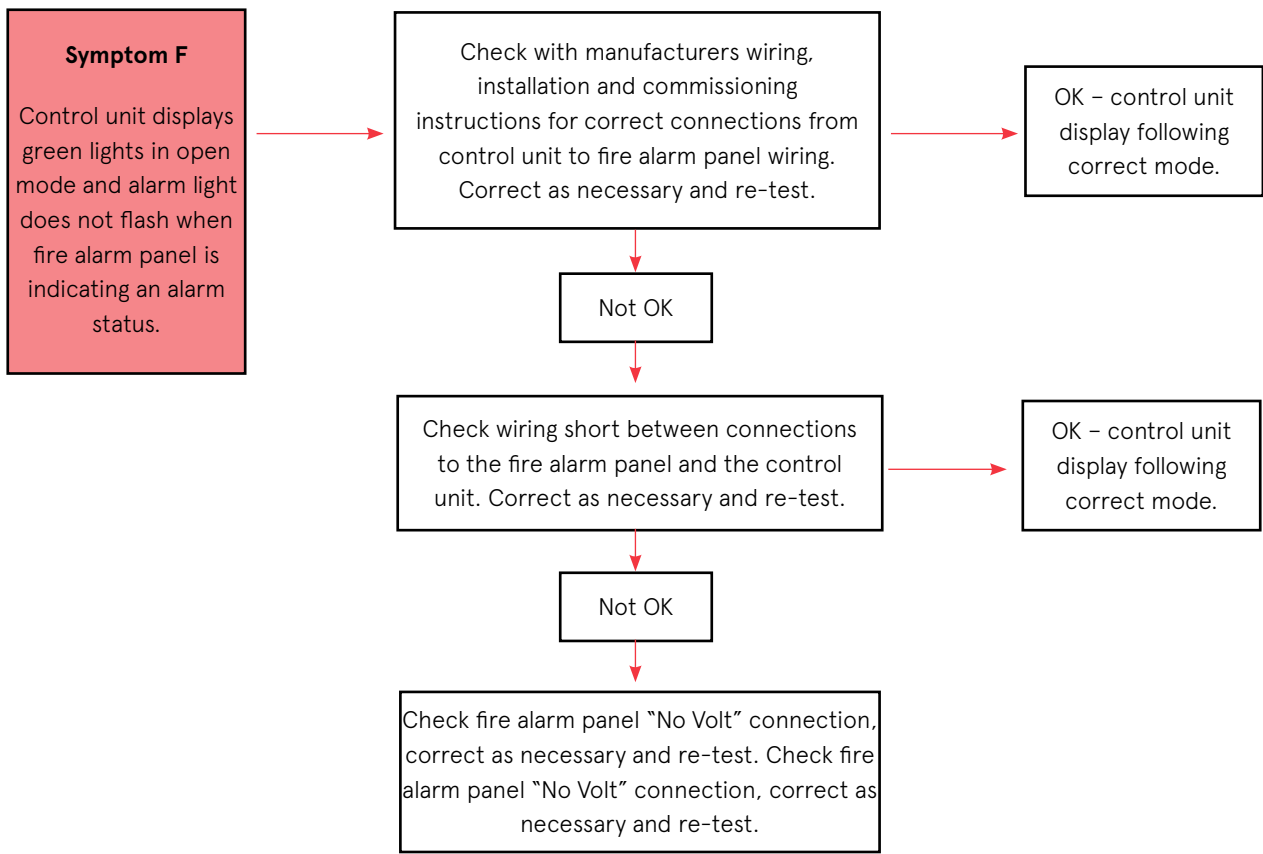








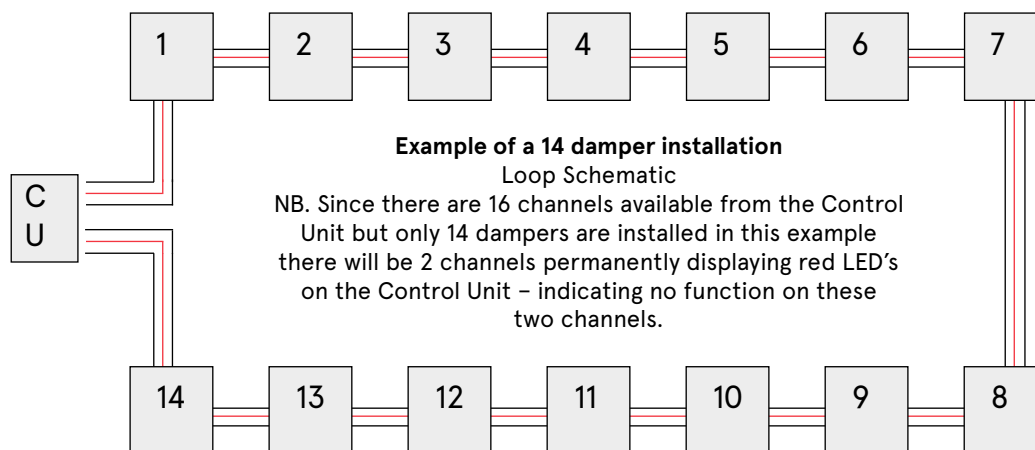




# SEQUENTIAL TEST METHOD TO IDENTIFY FAULTS ON "TALKBACK" LOOP INSTALLATIONS

## IMPORTANT NOTES:

1. There must be an adequate 240 Volt AC supply to the Control Unit.
2. The DC supply at any point around the loop should not be lower than 10.5 volts.
3. Cable should not exceed the lengths recommended by Lorient for wire cross sectional areas used in the installation.
4. This test method will only work if the damper addresses are coincident with the actual order of dampers around the loop. Check that addresses are in the actual order before starting the test sequence, correct as necessary by changing the addresses on the actuators.
5. Make sure that no dampers share the same address.



## Example of fault:

Symptoms – Control unit displays green lights for all dampers in circuit when in closed mode.

When open mode selected, green open LED,s flash but system keeps defaulting to green closed LED's.

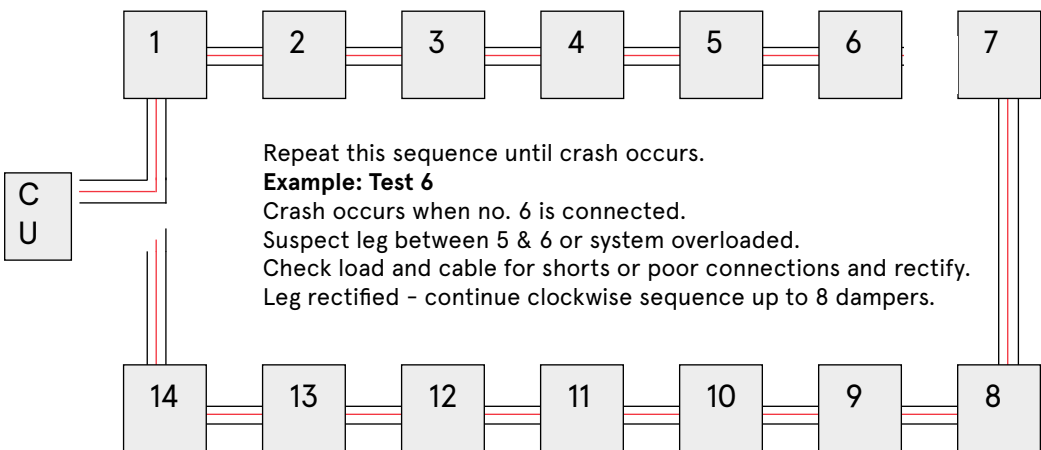
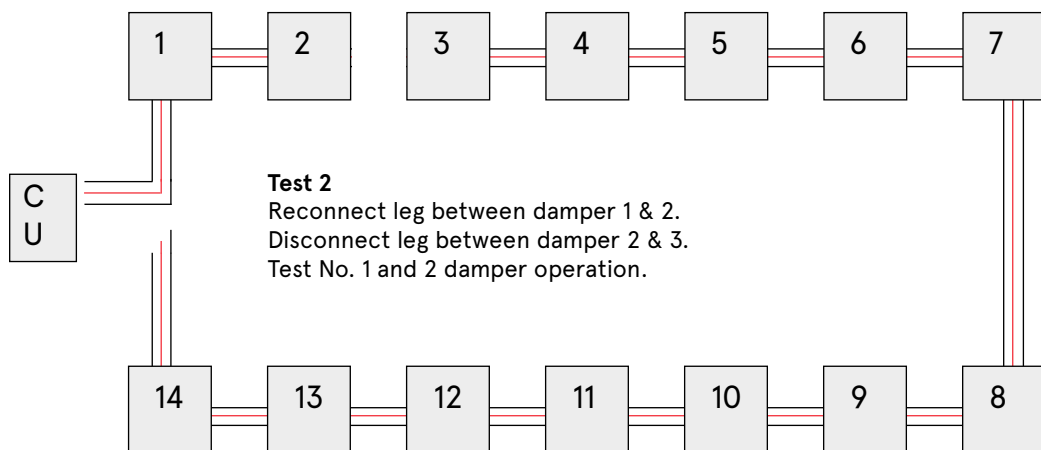
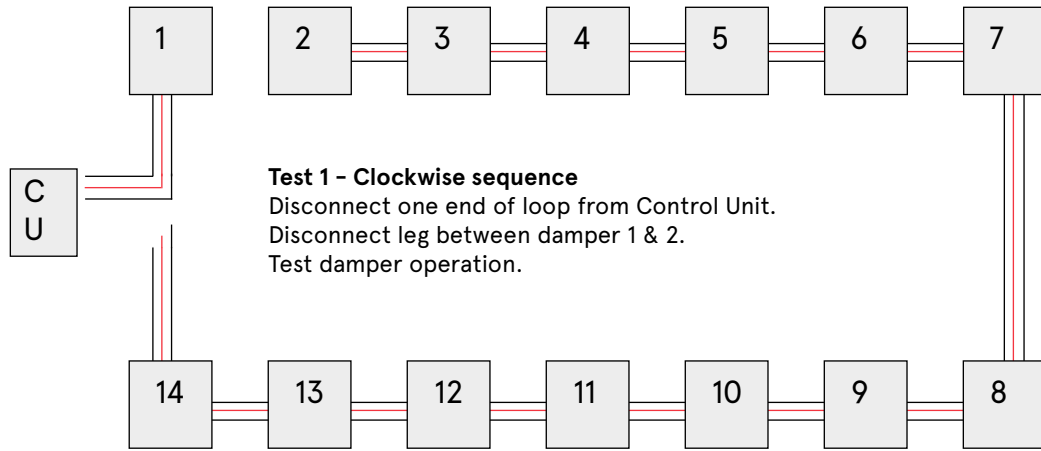
The system is doing what it is designed to do. Failing Safe – it recognises that a fault exists and therefore will not allow the fire and smoke dampers to open until the fault is rectified.

## Possible causes:

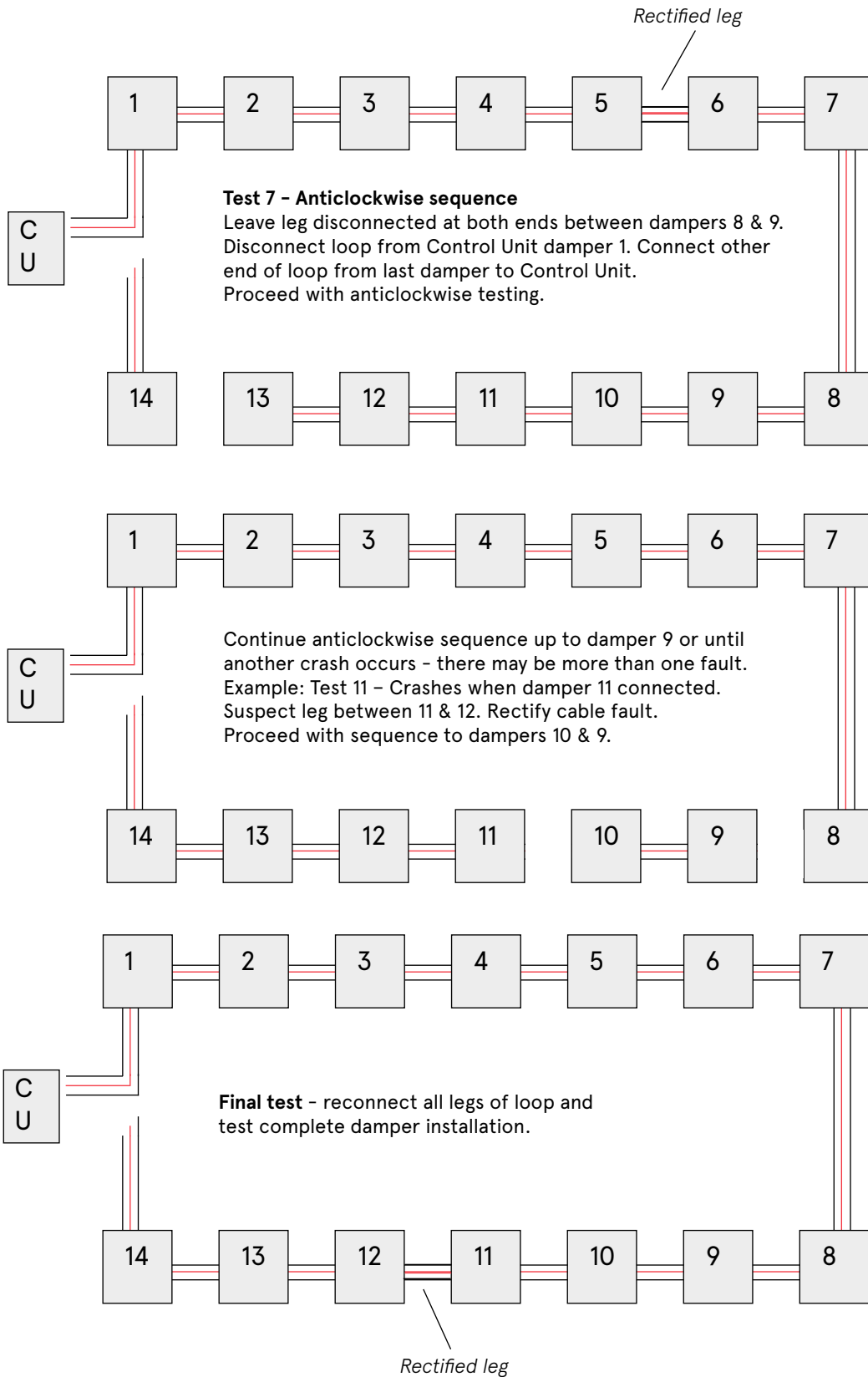
- ▶ AC supply to Control Unit is inadequate – check and rectify if necessary.
- ▶ Short circuit on signal or supply cables in loop.
- ▶ Dampers sharing same address.
- ▶ Poor connections at cable junctions.
- ▶ Too much load on the Control Unit.



# SEQUENTIAL TESTING PROCEDURE



# SEQUENTIAL TESTING PROCEDURE





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